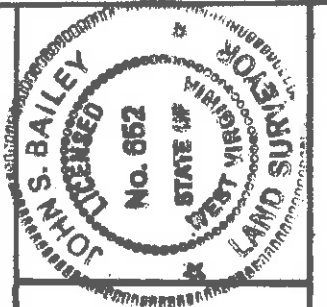


WELL REFERENCE TIES
 CNGD 1836 TO 14" C.O. N70°39'E 163.32'
 CNGD 1836 TO 12" S.O. N44°07'E 241.21'

PREPARED BY MSES CONSULTANTS, INC.

FILE NO. MSES84-635
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/16" 200
 PROVEN SOURCE OF ELEVATION EL. 841 ROAD JCT. RT. 19/11 & RT. 23/5

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) John S. Bailey R.P.E. L.S. 652



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



Department of Mines
 Oil & Gas Division

DATE JUNE 25, 19 85
 OPERATOR'S WELL NO. CNGD 1836
 API WELL NO. _____
 STATE 47 COUNTY 017 PERMIT 3475

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS", PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 998.82' WATER SHED SOUTH FORK HUGHES RIVER
 DISTRICT SOUTHWEST COUNTY DODDRIDGE
 QUADRANGLE OXFORD T.5 (1976) 526 ACREAGE 4589.21
 SURFACE OWNER BEATRICE SCHWARTZMAN
 OIL & GAS ROYALTY OWNER W.B. MAXWELL LEASE NO. 41998

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5450'
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS
 ADDRESS ONE PARK RIDGE CENTER ADDRESS 142
PITTSBURGH, PA. 15219 ADDRESS 6-6 Straight Fork - Bluestone Creek (133)
BRIDGEPORT, W.V. 26330 ADDRESS 101 21 1588

RECEIVED
DEC 26 1985



IV-35
(Rev 8-81)

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia

Department of Mines
Oil and Gas Division

Date December 12, 1985

Operator's

Well No. CNGD WN 1836

Farm Maxwell

API No. 47-017-3475

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal /
(If "Gas," Production X / Underground Storage / Deep / Shallow X /)

LOCATION: Elevation: 999 Watershed South Fork Hughes River
District: Southwest County Doddridge Quadrangle Oxford

COMPANY CNG Development Company
ADDRESS P.O. Box 15746
Pittsburgh, PA 15244
DESIGNATED AGENT Gary A. Nicholas
ADDRESS Rt. 2 Box 698
Bridgport, WV 26330
SURFACE OWNER Beatrice Schwartzman
ADDRESS 2520 - 30th St. NW
Washington, DC 20008
MINERAL RIGHTS OWNER W. B. Maxwell
ADDRESS 37 W. 10th Street
New York, NY 10011

OIL AND GAS INSPECTOR FOR THIS WORK

Mike Underwood ADDRESS Salem, WV 26426
Rt. 2 Box 114

PERMIT ISSUED October 16, 1985

DRILLING COMMENCED October 31, 1985

DRILLING COMPLETED November 6, 1985

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

Caging Tubing	Used in Drilling in Well	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	172	172	To Surf.
9 5/8			
8 5/8	1218	1218	To Surf
7			
5 1/2			
4 1/2	5247	5247	250 sks
3			
2 1-1/2	4946	4946	-----
Liners used			

GEOLOGICAL TARGET FORMATION Alexander

Depth of completed well 5463 feet Rotary X / Cable Tools _____ feet
Water strata depth: Fresh 270 feet; Salt _____ feet

Coal seam depths: _____ Is coal being mined in the area? No.

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 4950-4988 feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow (531) Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure 1700 psig (surface measurement) after 24 hours shut in

(If applicable due to multiple completion--)

Second producing formation _____ Pay zone depth _____ feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure _____ psig (surface measurement) after _____ hours shut in

IAN 13 1986 (Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Ran Corilog and Perforated Alexander sand with 3-3/8 expendable carrier 4950 - 4988, 40 holes (.47) Ran 2000 gals 15% FE Acid with 60 1-1/4" Perf. balls. Breakdown 1200, ISI 1100, swab hole dry. Halliburton foam frac 75Q Alexander - Break 1200, Avg T PSI 3000, Avg Rate 25 BPM, ISI 1350, 5 min 1300, used 500 gals 15% FE Acid, 135,000# 20/40 Sand, 1,168,000 SCFN2

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Fill and Shale			0	20	1" water @ 270'
RR, Shale & Sand			20	1700	
Big Lime			1700	1815	
Shale			1815	1825	
Big Injun			1825	1900	
Sand & Shale			1900	5763	2k @ TD
LOG TOPS ✓					
Big Injun			1764	1851	
Well			2010	2133	
Gordon Stray			2393	2440	
Warren			3086	3120	
Riley			4605	4610	Gas
Benson			4676	4684	Gas
Leopold			4834	4840	Gas
Alexander			4940	5018	Gas

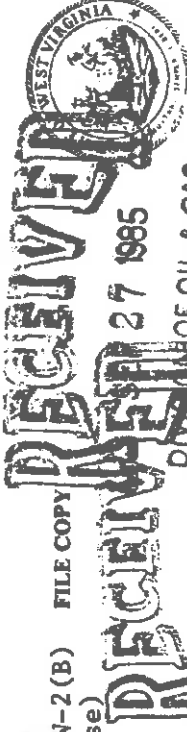
(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY
Well Operator

By: [Signature]

Date: December 12, 1985

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including sand, gravel, silt, clay, shale, limestone, etc., encountered in the drilling of a well."



1) Date: September 26, 1985
2) Operator's Well No. 1836
3) API Well No. 47-017-3475
State County Permit

DEPARTMENT OF ENERGY, OIL AND GAS DIVISION
APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil Gas
B (If "Gas", Production / Underground storage / Deep / Shallow /)
- 5) LOCATION: Elevation: 999 / Watershed: South Fork Hughes River
District: Southwest 142 / County: Doddridge / Quadrangle: Oxford
- 6) WELL OPERATOR: CNG Development Co CODE: 10110 / 7) DESIGNATED AGENT: Gary Nicholas
Address: c/o Paul W. Garrett, P.O. Box 15746 / Crosswind Corporate Park
Pittsburgh, PA 15244 / Rt. 2, Box 698, Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED: Mike Underwood
Name: Mike Underwood / Address: Route 2, Box 114 / Salem, WV 26426
- 9) DRILLING CONTRACTOR: Sam Jack Drilling Co.
Name: Sam Jack Drilling Co. / Address: P.O. Box 48 / Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill / deeper / Redrill / Stimulate
Plug off old formation / Perforate new formation / Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION: Alexander L-39
- 12) Estimated depth of completed well, 5450 feet
13) Approximate true depths: Fresh, 70 feet; salt, - feet.
14) Approximate coal seam depths: _____ feet. Is coal being mined in the area? Yes No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	For drilling	Left in well		
Conductor	11-3/4	H-42	42				
Fresh water				160	160	To Surface	By Rule 15.05
Coal							
Intermediate	8-5/8	X-42	23		1200	To Surface	By Rule 15.05
Production	4-1/2	J-55	2.75	5450	5450	200-400	Depths set
Tubing	1-1/2	CN-55	2.75				By Rule 15.01
Lift...							Perforations:
							Top
							Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3475

Date October 16 19 85

Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
Permit expires October 16, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond	Agent	Plat	Casing	Fee	WPCP	S&E	Other
mb	ML	MU	MU	11103	MU	MU	

NOTE: Keep one copy of this permit posted at the drilling location.

Director, Division of Oil and Gas

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File

